ENVIRONMENT ANNUAL INDEX

▪Volume 26▪

▪January—December 1984▪

▪SUBJECT INDEX▪

AGRICULTURE

(*see also* RESOURCE MANAGEMENT; SCIENCE, SOCIETY, AND POLICY; and WASTE MANAGEMENT/POLLUTION)

A CRISIS OF MANY DIMENSIONS: PUTTING FOOD ON THE WORLD'S TABLE
Lester R. Brown
What roles do population, distribution, and resource depletion play?
May 1984, p. 14

AGRICULTURAL LAND: WILL THERE BE ENOUGH?
Pierre Crosson
The economic costs of soil erosion are difficult to measure.
September 1984, p. 16

LAND USE: THE FUTURE OF THE NORTH AMERICAN GRANARY*
C. Ford Runge
Environmental policy problems posed by so large and interconnected a system.
October 1984, p. 4

ECOLOGY/ENVIRONMENTAL SCIENCES

ECOLOGY: LEAVING IT TO BEAVER*
Sally L. Duncan
The dam builder regulates ecosystem dynamics.
April 1984, p. 41

EL NIÑO AND WORLD CLIMATE: PIECING TOGETHER THE PUZZLE
Robert G. Brock
How the weather of 1983 supported an emerging view of atmosphere-ocean interactions.
April 1984, p. 14

BIOGEOCHEMICAL CYCLES: A NEW RESEARCH AGENDA*
Thomas F. Malone
A cooperative scientific effort to link biology and geophysics.
September 1984, p. 4

MAN AND THE BIOGEOCHEMICAL CYCLES—INTERACTING WITH THE ELEMENTS
Robert B. Cook
How we affect the flows of carbon, nitrogen, sulfur, and phosphorus
September 1984, p. 10

PROGRAM REPORT: MONITORING CARBON IN WORLD RIVERS
Egon T. Degens, Stephan Kempe, and Venugopalan Ittekkot
An international effort to help balance the global carbon budget.
November 1984, p. 29

SOURCES OF IONIZING RADIATION EXPOSURE
Merril Eisenbud
Natural and manmade origins surround us.
December 1984, p. 6

ENERGY

INTERNATIONAL: ISRAEL'S SOLAR PONDS GROW LARGER*
Richard Munson
Steps toward energy independence.
January/February 1984, p. 41

ATMOSPHERIC FLUIDIZED BED COMBUSTION: NO MORE COAL-SMOKED SKIES?
Bruce Allar
A coal-burning technology that shows great promise.
March 1984, p. 25

KEROSENE VS. ELECTRIC PORTABLE HEATERS: THE QUESTION OF RISK
Harvey S. Leff
Does economy outweigh safety?
March 1984, p. 31

RESEARCH AND DEVELOPMENT: WIDENING THE ENERGY HORIZON
Joel Darmstadter, Hans H. Landsberg, and Herbert C. Morton
Current trends, future paths, and policies that could yield the greatest benefits.
April 1984, p. 25

*"Columns from "Overview"
†"Report on Reports"

ENVIRONMENT ANNUAL INDEX

▪Volume 26▪

▪January—December 1984▪

▪SUBJECT INDEX▪

AGRICULTURE

(*see also* RESOURCE MANAGEMENT; SCIENCE, SOCIETY, AND POLICY; and WASTE MANAGEMENT/POLLUTION)

A CRISIS OF MANY DIMENSIONS: PUTTING FOOD ON THE WORLD'S TABLE
Lester R. Brown
What roles do population, distribution, and resource depletion play?
May 1984, p. 14

AGRICULTURAL LAND: WILL THERE BE ENOUGH?
Pierre Crosson
The economic costs of soil erosion are difficult to measure.
September 1984, p. 16

LAND USE: THE FUTURE OF THE NORTH AMERICAN GRANARY*
C. Ford Runge
Environmental policy problems posed by so large and interconnected a system.
October 1984, p. 4

ECOLOGY/ENVIRONMENTAL SCIENCES

ECOLOGY: LEAVING IT TO BEAVER*
Sally L. Duncan
The dam builder regulates ecosystem dynamics.
April 1984, p. 41

EL NIÑO AND WORLD CLIMATE: PIECING TOGETHER THE PUZZLE
Robert G. Brock
How the weather of 1983 supported an emerging view of atmosphere-ocean interactions.
April 1984, p. 14

BIOGEOCHEMICAL CYCLES: A NEW RESEARCH AGENDA*
Thomas F. Malone
A cooperative scientific effort to link biology and geophysics.
September 1984, p. 4

MAN AND THE BIOGEOCHEMICAL CYCLES—INTERACTING WITH THE ELEMENTS
Robert B. Cook
How we affect the flows of carbon, nitrogen, sulfur, and phosphorus
September 1984, p. 10

PROGRAM REPORT: MONITORING CARBON IN WORLD RIVERS
Egon T. Degens, Stephan Kempe, and Venugopalan Ittekkot
An international effort to help balance the global carbon budget.
November 1984, p. 29

SOURCES OF IONIZING RADIATION EXPOSURE
Merril Eisenbud
Natural and manmade origins surround us.
December 1984, p. 6

ENERGY

INTERNATIONAL: ISRAEL'S SOLAR PONDS GROW LARGER*
Richard Munson
Steps toward energy independence.
January/February 1984, p. 41

ATMOSPHERIC FLUIDIZED BED COMBUSTION: NO MORE COAL-SMOKED SKIES?
Bruce Allar
A coal-burning technology that shows great promise.
March 1984, p. 25

KEROSENE VS. ELECTRIC PORTABLE HEATERS: THE QUESTION OF RISK
Harvey S. Leff
Does economy outweigh safety?
March 1984, p. 31

RESEARCH AND DEVELOPMENT: WIDENING THE ENERGY HORIZON
Joel Darmstadter, Hans H. Landsberg, and Herbert C. Morton
Current trends, future paths, and policies that could yield the greatest benefits.
April 1984, p. 25

*"Columns from "Overview"
†"Report on Reports"

EPRI'S EIGHTH INDUSTRY SURVEY: PRESENT AND FUTURE PERSPECTIVES FOR ELECTRIC UTILITIES
J. Sherman Feher, Frank S. Young, and Richard W. Zeren
Environmental concerns are a growing priority with power producers.
December 1984, p. 12

INSTITUTIONS

(*see also* RESOURCE MANAGEMENT)

INSTITUTIONS: WORLD RESOURCES INSTITUTE*
William J. Lanouette
Building an innovative, influential institution that can provide credible information and analyses.
September 1984, p. 2

INSTITUTIONS: ENVIRONMENTAL DEFENSE FUND*
John Firor
History, programs, and policies.
October 1984, p. 2

INSTITUTIONS: CENTER FOR THE STUDY OF GLOBAL HABITABILITY*
Ruth A. Levenson
University seminars and developing country outreach programs by and for scientists and policy makers.
November 1984, p. 2

INSTITUTIONS: THE WORLD BANK*
James A. Lee
Environmental policies and programs for providing development assistance.
December 1984, p. 2

LEGISLATION AND REGULATION

(*see also* SCIENCE, SOCIETY, AND POLICY; and WASTE MANAGEMENT/POLLUTION)

LAW: FDA ON FOOD ADDITIVES AND SALT*
David A. Wirth
Recent actions could affect U.S. incidence of cancer and heart disease.
January/February 1984, p. 3

LEGISLATIVE REPORT: THE ENVIRONMENTAL AGENDA FOR 1984
Katherine Barton
Major issues to be covered and what may influence action on them.
January/February 1984, p. 28

LAW: THE WESTWAY PROJECT*
Ross Sandler
Army Corps of Engineers sides with striped bass in negotiations for Manhattan freeway.
March 1984, p. 42

LAW: BENEFITS OF ACID RAIN CONTROLS*
David G. Hawkins
Acid rain is not necessarily a regionally divisive battle.
April 1984, p. 2

LAW: SNEAK ATTACK ON ACID RAIN*
Eric A. Goldstein
Coal-burning plants in New York City must have scrubbers before going on line.
May 1984, p. 4

LAW: CHEMICAL DISCLOSURE LAWS*
Leo Uzych
OSHA's "right to know" standard for manufacturing workers is less protective than many state and local measures.
June 1984, p. 4

SUPERFUNDING ACID RAIN CONTROLS: WHO WILL BEAR THE COSTS?
Steven L. Rhodes
The science, politics, and economics of proposals to clean up power plant emissions.
July/August 1984, p. 25

LAW: REVERSALS FOR THE ENVIRONMENT*
Ross Sandler
Supreme Court decisions on the Clean Air Act and the Outer Continental Shelf support Reagan's policies on environmental statutes.
November 1984, p. 44

LAW: WILDERNESS LEGISLATION RELEASED BY COMPROMISE*
D. Michael Harvey
Breaking the congressional logjam to preserve 6 million acres.
December 1984, p. 35

MILITARY TECHNOLOGY

LIVING IN A MIRVED WORLD: SOME SECOND THOUGHTS ABOUT A FIRST STRIKE
Fred Kaplan
One of the great false steps of the arms race?
April 1984, p. 6

THE CLIMATIC AND BIOLOGICAL CONSEQUENCES OF NUCLEAR WAR
Herbert D. Grover
What the world might be like for those surviving the direct effects.
May 1984, p. 6

THE STRATEGIC DEFENSE INITIATIVE: THE IMPERFECTIONS OF "PERFECT DEFENSE"
George Rathjens
President Reagan's "Star Wars" proposal was made without sound military or scientific advice.
June 1984, p. 6

DEBATING THE ROLE OF NONSTRATEGIC NUCLEAR WEAPONS
Jonathan Dean, Sidney Drell, Noel Gayler, and Peter Sharfman
A roundtable discussion on the effectiveness, strategy, and historic role of these weapons.
July/August 1984, p. 6

SMART WEAPONS AND WARFARE: FACING UP TO HI-TECH VULNERABILITY
Paul F. Walker and James C. Mihori

Emerging technologies are forcing a reassessment of how battles will be fought.
July/August 1984, p. 14

RESOURCE MANAGEMENT

(*see also* AGRICULTURE; and SCIENCE, SOCIETY, AND POLICY)

THE COLORADO RIVER: RIVER OF CONTROVERSY
Robert Coats
How should the disputed waters be managed?
March 1984, p. 6

FEDERAL LANDS: WILDERNESS MANAGEMENT POLICY*
Gundars Rudzitis
A conference addresses the conflict between wilderness use and preservation.
May 1984, p. 2

SOUTH FLORIDA'S WATER DILEMMA: A TRICKLE OF HOPE FOR THE EVERGLADES
Kevin Hansen
Wider recognition of water needs and new cooperation among those managing the wetlands are encouraging.
June 1984, p. 14

RESOURCE MANAGEMENT: THE INDIANA DUNES*
Maryanne Newsom-Brighton
A national lakeshore successfully coexists with its industrial neighbors.
July/August 1984, p. 40

CIRCULAR VS. LINEAR WATER SYSTEMS: GOING BACK TO NATURE'S WAY
John R. Sheaffer
Questions the early dominance of the linear approach to water management.
October 1984, p. 10

DOCUMENTING ENVIRONMENTAL HISTORY: GLOBAL PATTERNS OF LAND CONVERSION
John F. Richards
To identify significant trends, episodes of land conversion should be looked at from a long-term, comparative perspective.
November 1984, p. 6

GLOBAL RESOURCES: IS THE FUTURE POSSIBLE?*
Richard Ford
Two scenarios from Kenya provide best- and worst-case examples for discussion of The Global Possible conference, its recommendations, and its goals.
November 1984, p. 4

SCIENCE, SOCIETY, AND POLICY

(*see also* ECOLOGY/ENVIRONMENTAL SCIENCES; LEGISLATION AND REGULATION; RESOURCE MANAGEMENT; and WASTE MANAGEMENT/POLLUTION)

ENVIRONMENTAL MANAGEMENT: THE BLACK BOX SYNDROME*
Joseph M. Petulla
It is hard to get useful environmental information out of industry.
January/February 1984, p. 5

BREAKING UP IS HARD ON YOU: AT&T AND THE PUBLIC FACE THE MUSIC
Katherine Seelman
History, impacts, and policy options of the divestiture.
March 1984, p. 14

ENVIRONMENTAL PHILOSOPHY: THERE IS NO ENTROPY TRAP*
Frank C. Andrews
Arguments against using bioeconomics to explain and solve environmental problems.
March 1984, p. 4

INTERNATIONAL: THE UNITED STATES VS. UNESCO*
Malcolm G. Scully
What the U.S. withdrawal could mean.
March 1984, p. 2

ENVIRONMENTAL MANAGEMENT: BLACK BOX SYNDROME II—STRUCTURES OF MISTRUST*
Joseph M. Petulla
Distrust hampers the release of essential industrial data for research.
April 1984, p. 4

ENVIRONMENTAL SOCIOLOGY: FISHERMEN OF THE TITTABAWASSEE*
Bradley F. Smith and William N. Thompson
Contaminated fish, information overload, and the media wolf cry.
June 1984, p. 5

ENVIRONMENTAL MANAGEMENT: PRESSURE POLITICS AND ENVIRONMENTAL PROGRESS*
Joseph M Petulla
Does strong advocacy preclude improvement of environmental quality?
July/August 1984, p. 4

COMPARING U.S. AND SOVIET EXPERIENCES: SCIENCE, CITIZENS, AND THE POLICY-MAKING PROCESS
Loren R. Graham
Development of science policy, and balancing the roles of experts and laypersons.
September 1984, p. 6

ANTICIPATING CLIMATE CHANGE: IMPLICATIONS FOR WELFARE AND POLICY
Thomas C. Schelling
A policy framework for outlining possible future scenarios.
October 1984, p. 6

ASBESTOS IN SCHOOLS: LOW MARKS FOR GOVERNMENT ACTION
Robert D. Lang
Lack of federal funding has resulted in low compliance with Congress's mandate to remove asbestos from the classroom.
November 1984, p. 14

*Columns from "Overview"
†"Report on Reports"

DEVELOPMENT: ENVIRONMENTALISTS AND AMERICA'S ECONOMIC FUTURE*
Robert D. Hamrin
Several groups have entered the economic policy debate by forming the Project on Industrial Policy and the Environment.
November 1984, p. 42

ENVIRONMENTAL REPORTING: BEFORE AND AFTER TMI*
Sharon M. Friedman
Did local papers fulfill their role in educating the public about nuclear power and the accident?
December 1984, p. 4

SPACE

NUCLEAR REACTORS: POWERING OUR SPACE FUTURE?
David Buden and J. Al Sullivan
Have the safety issues been handled? What are the benefits?
January/February 1984, p. 6

NUCLEAR SATELLITES: WHY HAS THE GOVERNMENT DOWNPLAYED THEIR RISKS?
Daniel P. Finn
Did the U.S. government fail to criticize Soviet space policy in order to avoid raising concern about its own programs?
January/February 1984, p. 14

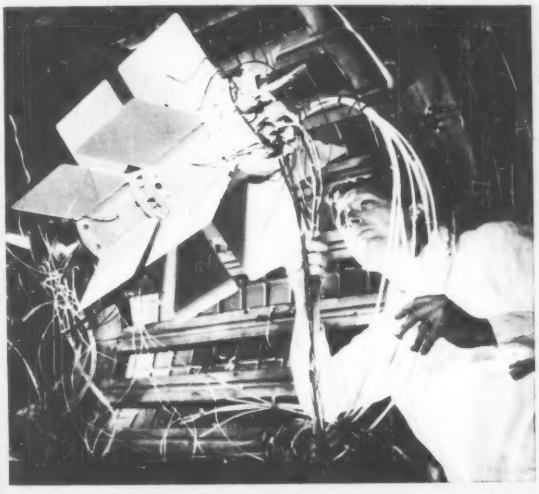
IS THERE PUBLIC SUPPORT FOR SPACE EXPLORATION?
Jon D. Miller
An analysis of three national surveys.
June 1984, p. 25

WASTE MANAGEMENT/POLLUTION

(*see also* LEGISLATION AND REGULATION)

RESOURCE RECOVERY: THE TERMINAL MARKET ISSUE*
Rachaele I. Raynoff
Can a proposed waste-incineration plant and a produce market be compatible neighbors?
January/February 1984, p. 2

TOXIC MATERIALS: THE CHANGING ROLE OF STATES*
Gary Davis
New responsibilities require funding, scientific expertise, and public trust.
April 1984, p. 5



GROUNDWATER POLLUTION IN WISCONSIN: A BUMPER CROP YIELDS GROWING PROBLEMS
Lindsey McWilliams
Aldicarb and nitrate fertilizers cause problems for people and agriculture.
May 1984, p. 25

HAZARDOUS WASTE: THE STATUS OF RCRA IN THE MID-ATLANTIC STATES*
Thomas P. Eichler
What is EPA doing to protect the public from this threat?
June 1984, p. 2

LAW: ATOMIC BOMBS, CHEMICAL WASTES*
Barbara A. Finamore
Taking DOE to court for weapons-plant wastes.
July/August 1984, p. 2

LOW-LEVEL RADIOACTIVE WASTE DISPOSAL: HOW ARE STATES SETTING THEIR SITES?
Irvin L. White and John P. Spath
Will they be ready to manage their LLRW by 1986?
October 1984, p. 16

REPORT ON REPORTS

STRENGTHENING THE GOVERNMENT-UNIVERSITY PARTNERSHIP IN SCIENCE
Reviewed by Thomas H. Moss
The report of the National Academy's Ad Hoc Committee on Government-University Relationships in Support of Science
January/February 1984, p. 25

THE RESOURCEFUL EARTH
Julian L. Simon and Herman Kahn, editors
Reviewed by Alvin M. Weinberg and by Herman E. Daly
An alternative report to The Global 2000 Report to the President (1979)
September 1984, p. 25

TECHNOLOGIES TO SUSTAIN TROPICAL FOREST RESOURCES
Reviewed by Fred C. Hummel
A report by the U.S. Congress Office of Technology Assessment
October 1984, p. 25

ENVIRONMENTAL QUALITY 1983
Reviewed by Gordon J. MacDonald
The Fourteenth Annual Report of the Council on Environmental Quality
November 1984, p. 25

CAUSES AND EFFECTS OF CHANGES IN STRATOSPHERIC OZONE: UPDATE 1983
Reviewed by James E. Lovelock
A report by the National Academy of Sciences National Research Council.
December 1984, p. 25

BOOK REVIEWS

MATERIALS RECYCLING: THE VIRTUE OF NECESSITY
By William U. Chandler
Reviewed by Neil Seldman and Michael Huls
January/February 1984, p. 44

MOUNTAIN IN THE CLOUDS: A SEARCH FOR THE WILD SALMON
By Bruce Brown
Reviewed by John H. Perkins
January/February 1984, p. 43

STANISLAUS: THE STRUGGLE FOR A RIVER
By Tim Palmer

Reviewed by Lynne DeMichele
January/February 1984, p. 42

THE FIGHT TO SAVE THE REDWOODS: A HISTORY OF ENVIRONMENTAL REFORM—1917–1923
By Susan R. Schrepfer
Reviewed by Joël Freid
March 1984, p. 44

ACID RAIN IN EUROPE AND NORTH AMERICA: NATIONAL RESPONSES TO AN INERNATIONAL PROBLEM
By Gregory S. Wetstone and Armin Rosencranz
Reviewed by Jack DeForest
May 1984, p. 44

ENVIRONMENTAL DIPLOMACY: AN EXAMINATION AND A PROSPECTIVE OF CANDIAN-U.S. TRANSBOUNDARY ENVIRONMENTAL RELATIONS
By John E. Carroll
Reviewed by Jack DeForest
May 1984, p. 44

TROUBLED SKIES, TROUBLED WATERS
By Jon R. Luoma
Reviewed by Jack DeForest
May 1984, p. 44

ENVIRONMENT AND TRADE: THE RELATION OF INTERNATIONAL TRADE AND ENVIRONMENTAL POLICY
By Seymour J. Rubin and Thomas Q. Graham, eds.
Reviewed by Bruce Rich
June 1984, p. 44

THE NUCLEAR FUTURE: TOWARD A STRATEGY OF UNCERTAINTY
By Donald M. Snow
Reviewed by David T. Azrin
June 1984, p. 44

GLOBAL FISSION: THE BATTLE OVER NUCLEAR POWER
By Jim Falk
Reviewed by Dennis R. Nelson
July/August 1984, p. 44

MAKING THINGS HAPPEN: THE GUIDE FOR MEMBERS OF VOLUNTEER ORGANIZATIONS
By Joan Wolfe
Reviewed by Christopher Palmer and Brita E. Lundberg
July/August 1984, p. 45

NOTHING CAN BE DONE, EVERYTHING IS POSSIBLE
By Byron Kennard
Reviewed by Christopher Palmer and Brita E. Lundberg
July/August 1984, p. 45

WEAPONS AND HOPE
By Freeman Dyson
Reviewed by Rush Holt
July/August 1984, p. 43

CLIMATE AND ENERGY SYSTEMS: A REVIEW OF THEIR INTERACTIONS
By Jill Jäger
Reviewed by Jesse Ausubel
September 1984, p. 29

CLIMATE PROCESSES AND CLIMATE SENSITIVITY
By J.E. Hansen and T. Takahashi, eds.
Reviewed by Kerry H. Cook
September 1984, p. 29

THE GLOBAL BIOGEOCHEMICAL SULPHUR CYCLE
By M.V. Ivanov and J.R. Freeney, eds.
Reviewed by William C. Clark
September 1984, p. 30

THE MAJOR BIOGEOCHEMICAL CYCLES AND THEIR INTERACTIONS
By B. Bolin and R.B. Cook, eds.
Reviewed by William C. Clark
September 1984, p. 30

SCIENCE AND THE NATIONAL ENVIRONMENTAL POLICY ACT: REDIRECTING POLICY THROUGH PROCEDURAL REFORM
By Lynton K. Caldwell
Reviewed by Thomas H. Moss
September 1984, p. 30

ENERGY AND THE ENVIRONMENT
By John M. Fowler
Reviewed by Joel Darmstadter
October 1984, p. 27

THE MYTH OF TVA: CONSERVATION AND DEVELOPMENT ON THE TENNESSEE VALLEY, 1933–1983
By William U. Chandler
Reviewed by Benjamin Cooper
October 1984, p. 27

THE COEVOLUTION OF CLIMATE AND LIFE
By Stephen H. Schneider and Randi Londer
Reviewed by Jesse Ausubel
November 1984, p. 28

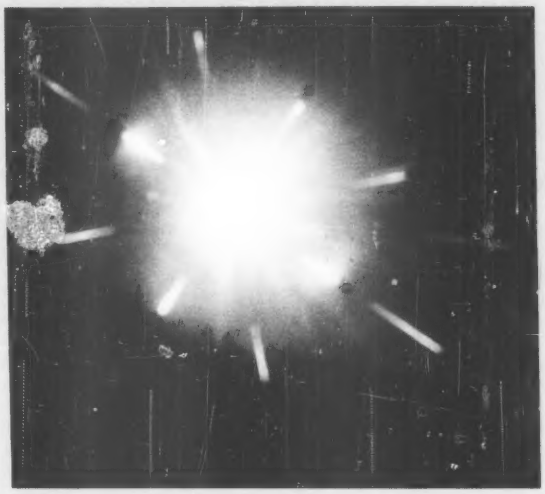
NORMAL ACCIDENTS: LIVING WITH HIGH-RISK TECHNOLOGY
By Charles Perrow
Reviewed by Roger E. Kasperson
November 1984, p. 28

A SEASON OF SPOILS
By Jonathan Lash, Katherine Gillman, and David Sheridan
Reviewed by David Strom
November 1984, p. 27

TREES AND TIMBER IN THE ANCIENT MEDITERRANEAN WORLD
By Russell Meiggs
Reviewed by Peter Ian Kuniholm
November 1984, p. 27

THE ECOLOGICAL IMPLICATIONS OF BODY SIZE
By R.H. Peters
Reviwed by David E. Burmaster
December 1984, p. 27

GLOBAL DEFORESTATION AND THE NINETEENTH-CENTURY WORLD ECONOMY
By Richard F. Tucker and J.F. Richards, eds.
Reviewed by Margaret A. McKean
December 1984, p. 27



▪AUTHOR INDEX▪

Allar, Bruce
ATMOSPHERIC FLUIDIZED BED COMBUSTION: NO MORE COAL-SMOKED SKIES?
March 1984, p. 25

Andrews, Frank C.
ENVIRONMENTAL PHILOSOPHY: THERE IS NO ENTROPY TRAP*
March 1984, p. 4

Barton, Katherine
LEGISLATIVE REPORT: THE ENVIRONMENTAL AGENDA FOR 1984
January/February 1984, p. 28

Brock, Robert G.
EL NIÑO AND WORLD CLIMATE: PIECING TOGETHER THE PUZZLE
April 1984, p. 14

Brown, Lester R.
A CRISIS OF MANY DIMENSIONS: PUTTING FOOD ON THE WORLD'S TABLE
May 1984, p. 14

Buden, David and J. Al Sullivan
NUCLEAR REACTORS: POWERING OUR SPACE FUTURE
January/February 1984, p. 6

Coats, Robert
THE COLORADO RIVER: RIVER OF CONTROVERSY
March 1984, p. 6

Cook, Robert B.
MAN AND THE BIOGEOCHEMICAL CYCLES—INTERACTING WITH THE ELEMENTS
September 1984, p. 10

Crosson, Pierre
AGRICULTURAL LAND: WILL THERE BE ENOUGH?
September 1984, p. 18

Daly, Herman E.
THE RESOURCEFUL EARTH: JULIAN SIMON AND HERMAN KAHN, EDITORS†
September 1984, p. 25

Darmstadter, Joel, Hans H. Landsberg, and Herbert C. Morton
RESEARCH AND DEVELOPMENT: WIDENING THE ENERGY HORIZON
April 1984, p. 25

Davis, Gary
TOXIC MATERIALS: THE CHANGING ROLE OF STATES*
April 1984, p. 5

Dean, Jonathan, Sidney Drell, Noel Gayler, and Peter Sharfman
DEBATING THE ROLE OF NONSTRATEGIC NUCLEAR WEAPONS
July/August 1984, p. 6

Degens, Egon T., Stephan Kempe, and Venugopalan Ittekkott
MONITORING CARBON IN WORLD RIVERS
November 1984, p. 29

*Columns from "Overview"
†"Report on Reports"

Drell, Sidney, Jonathan Dean, Noel Gayler, and Peter Sharfman
DEBATING THE ROLE OF NONSTRATEGIC NUCLEAR WEAPONS
July/August 1984, p. 6

Duncan, Sally L.
ECOLOGY: LEAVING IT TO BEAVER*
April 1984, p. 41

Eichler, Thomas P.
HAZARDOUS WASTE: THE STATUS OF RCRA IN THE MID-ATLANTIC STATES*
June 1984, p. 2

Eisenbud, Merril
SOURCES OF IONIZING RADIATION EXPOSURE
December 1984, p. 6

Feher, J. Sherman, Frank S. Young, and Richard W. Zeren
EPRI'S EIGHTH INDUSTRY SURVEY: PRESENT AND FUTURE PERSPECTIVES FOR ELECTRIC UTILITIES
December 1984, p. 12

Finamore, Barbara A.
LAW: ATOMIC BOMBS, CHEMICAL WASTES*
July/August 1984, p. 2

Finn, Daniel P.
NUCLEAR SATELLITES: WHY HAS THE GOVERNMENT DOWNPLAYED THEIR RISKS?
January/February 1984, p. 14

Firor, John
INSTITUTIONS: ENVIRONMENTAL DEFENSE FUND*
October 1984, p. 2

Ford, Richard
GLOBAL RESOURCES: IS THE FUTURE POSSIBLE?*
November 1984, p. 4

Friedman, Sharon M.
ENVIRONMENTAL REPORTING: BEFORE AND AFTER TMI*
December 1984, p. 4

Gayler, Noel, Jonathan Dean, Sidney Drell, and Peter Sharfman
DEBATING THE ROLE OF NONSTRATEGIC NUCLEAR WEAPONS
July/August 1984, p. 6

Goldstein, Eric A.
LAW: SNEAK ATTACK ON ACID RAIN*
May 1984, p. 4

Graham, Loren R.
COMPARING U.S. AND SOVIET EXPERIENCES: SCIENCE, CITIZENS, AND THE POLICY-MAKING PROCESS
September 1984, p. 6

Grover, Herbert D.
THE CLIMACTIC AND BIOLOGICAL CONSEQUENCES OF NUCLEAR WAR
May 1984, p. 6

Hamrin, Robert D.
DEVELOPMENT: ENVIRONMENTALISTS AND AMERICA'S ECONOMIC FUTURE*
November 1984, p. 42

Hansen, Kevin
SOUTH FLORIDA'S WATER DILEMMA: A TRICKLE OF HOPE FOR THE EVERGLADES
June 1984, p. 14

Harvey, D. Michael
LAW: WILDERNESS LEGISLATION RELEASED BY COMPROMISE*
December 1984, p. 35

Hawkins, David G.
LAW: BENEFITS OF ACID RAIN CONTROLS
April 1984, p. 2

Hummel, Fred C.
TECHNOLOGIES TO SUSTAIN TROPICAL FOREST RESOURCES: A REPORT BY THE U.S. CONGRESS OFFICE OF TECHNOLOGY ASSESSMENT†
October 1984, p. 25

Ittekkot, Venugopalan, Stephan Kempe, and Egon T. Degens
MONITORING CARBON IN WORLD RIVERS
November 1984, p. 29

Kaplan, Fred
LIVING IN A MIRVED WORLD: SOME SECOND THOUGHTS ABOUT A FIRST STRIKE
April 1984, p. 6

Kempe, Stephan, Egon T. Degens, and Venugopalan Ittekkot
MONITORING CARBON IN WORLD RIVERS
November 1984, p. 29

Landsberg, Hans H., Joel Darmstadter, and Herbert C. Morton
RESEARCH AND DEVELOPMENT: WIDENING THE ENERGY HORIZON
April 1984, p. 25

Lang, Robert D.
ASBESTOS IN SCHOOLS: LOW MARKS FOR GOVERNMENT ACTION
November 1984, p. 14

Lanouette, William J.
INSTITUTIONS: WORLD RESOURCES INSTITUTE*
September 1984, p. 2

Lee, James A.
INSTITUTIONS: THE WORLD BANK*
December 1984, p. 2

Leff, Harvey S.
KEROSENE VS. ELECTRIC PORTABLE HEATERS: THE QUESTION OF RISK
March 1984, p. 31

Levenson, Ruth A.
INSTITUTIONS: CENTER FOR THE STUDY OF GLOBAL HABITABILITY*
November 1984, p. 2

Lovelock, James E.
CAUSES AND EFFECTS OF CHANGES IN STRATOSPHERIC OZONE: UPDATE:1983—A REPORT BY THE NATIONAL ACADEMY OF SCIENCES NATIONAL RESEARCH COUNCIL†
December 1984, p. 25

MacDonald, Gordon J.
ENVIRONMENTAL QUALITY 1983: THE FOURTEENTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY†
November 1984, p. 25

Malone, Thomas F.
BIOGEOCHEMICAL CYCLES: A NEW RESEARCH AGENDA*
September 1984, p. 4

McWilliams, Lindsey
GROUNDWATER POLLUTION IN WISCONSIN: A BUMPER CROP YIELDS GROWING PROBLEMS
May 1984, p. 25

Mihori, James C. and Paul F. Walker
SMART WEAPONS AND WARFARE: FACING UP TO HI-TECH VULNERABILITY
July/August 1984, p. 14

Miller, Jon D.
IS THERE PUBLIC SUPPORT FOR SPACE EXPLORATION?
June 1984, p. 25

Morton, Herbert C., Joel Darmstadter, and Hans H. Landsberg
RESEARCH AND DEVELOPMENT: WIDENING THE ENERGY HORIZON
April 1984, p. 25

Moss, Thomas H.
STRENGTHENING THE GOVERNMENT-UNIVERSITY PARTNERSHIP IN SCIENCE: THE REPORT OF THE NATIONAL ACADEMY'S AD HOC COMMITTEE ON GOVERNMENT-UNIVERSITY RELATIONSHIPS IN SUPPORT OF SCIENCE†
January/February 1984, p. 25

Munson, Richard
INTERNATIONAL: ISRAEL'S SOLAR PONDS GROW LARGER*
January/February 1984, p. 41

Newsom-Brighton, Maryanne
RESOURCE MANAGEMENT: THE INDIANA DUNES*
July/August 1984, p. 40

Petulla, Joseph M.
ENVIRONMENTAL MANAGEMENT: THE BLACK BOX SYNDROME*
January/February 1984, p. 5

Petulla, Joseph M.
ENVIRONMENTAL MANAGEMENT: BLACK BOX SYNDROME II—STRUCTURES OF MISTRUST*
April 1984, p. 4

Petulla, Joseph M.
ENVIRONMENTAL MANAGEMENT: PRESSURE POLITICS AND ENVIRONMENTAL PROGRESS*
July/August 1984, p. 4

Rathjens, George
THE STRATEGIC DEFENSE INITIATIVE: THE IMPERFECTIONS OF "PERFECT DEFENSE"
June 1984, p. 6

Raynoff, Rachaele I.
RESOURCE RECOVERY: THE TERMINAL MARKET ISSUE*
January/February 1984, p. 2

Rhodes, Steven L.
SUPERFUNDING ACID RAIN CONTROLS: WHO WILL BEAR THE COSTS?
July/August 1984, p. 25

Richards, John F.
DOCUMENTING ENVIRONMENTAL HISTORY: GLOBAL PATTERNS OF LAND CONVERSION
November 1984, p. 6

Rudzitis, Gundars
FEDERAL LANDS: WILDERNESS MANAGEMENT POLICY*
May 1984, p. 2

Runge, C. Ford
LAND USE: THE FUTURE OF THE NORTH AMERICAN GRANARY*
October 1984, p. 4

Sandler, Ross
LAW: THE WESTWAY PROJECT*
March 1984, p. 42

Sandler, Ross
LAW: REVERSALS FOR THE ENVIRONMENT*
November 1984, p. 44

Schelling, Thomas C.
ANTICIPATING CLIMATE CHANGE: IMPLICATIONS FOR WELFARE AND POLICY
October 1984, p. 6

Scully, Malcolm G.
INTERNATIONAL: THE UNITED STATES VS. UNESCO*
March 1984, p. 2

Seelman, Katherine
BREAKING UP IS HARD ON YOU: AT&T AND THE PUBLIC FACE THE MUSIC
March 1984, p. 14

Sharfman, Peter, Jonathan Dean, Sidney Drell, and Noel Gayler
DEBATING THE ROLE OF NONSTRATEGIC NUCLEAR WEAPONS
July/August 1984, p. 6

Sheaffer, John R.
CIRCULAR VS. LINEAR WATER SYSTEMS: GOING BACK TO NATURE'S WAY
October 1984, p. 10

Smith, Bradley F. and William N. Thompson
ENVIRONMENTAL SOCIOLOGY: FISHERMEN OF THE TITTABAWASSEE*
June 1984, p. 5

Spath, John P. and Irvin L. White
LOW-LEVEL RADIOACTIVE WASTE DISPOSAL: HOW ARE STATES SETTING THEIR SITES?
October 1984, p. 16

Sullivan, J. Al and David Buden
NUCLEAR REACTORS: POWERING OUR SPACE FUTURE
January/February 1984, p. 6

Thompson, William N. and Bradley F. Smith
ENVIRONMENTAL SOCIOLOGY: FISHERMEN OF THE TITTABAWASSEE*
June 1984, p. 5

Uzych, Leo
LAW: CHEMICAL DISCLOSURE LAWS*
June 1984, p. 4

Walker, Paul F. and James C. Mihori
SMART WEAPONS AND WARFARE: FACING UP TO HI-TECH VULNERABILITY
July/August 1984, p. 14

Weinberg, Alvin M.
THE RESOURCEFUL EARTH: JULIAN SIMON AND HERMAN KAHN, EDITORS†
September 1984, p. 25

White, Irvin L. and John P. Spath
LOW-LEVEL RADIOACTIVE WASTE DISPOSAL: HOW ARE STATES SETTING THEIR SITES?
October 1984, p. 16

Wirth, David A.
LAW: FDA ON FOOD ADDITIVES AND SALT*
January/February 1984, p. 3

Young, Frank S., Richard W. Zeren, and J. Sherman Feher
EPRI'S EIGHTH INDUSTRY SURVEY: PRESENT AND FUTURE PERSPECTIVES FOR ELECTRIC UTILITIES
December 1984, p. 12

Zeren, Richard W., J. Sherman Feher, and Frank S. Young
EPRI'S EIGHTH INDUSTRY SURVEY: PRESENT AND FUTURE PERSPECTIVES FOR ELECTRIC UTILITIES
December 1984, p. 12

*Columns from "Overview"
†"Report on Reports"

Journal of Geography

Editor: Anthony R. de Souza
Department of Geography,
University of Wisconsin-Eau Claire
Eau Claire, WI 54701, USA
Published by the National Council for Geographic Education

The *Journal of Geography* is the leading U.S. publication dedicated to the strengthening of the teaching of geography at all levels. It alerts teachers to recent developments in geography by publishing updating articles in all corners of the field. Additionally, the *Journal* serves the interests and needs of teachers by publishing didactical materials.

The *Journal of Geography* is published bimonthly. It may be obtained on subscription from the National Council for Geographic Education, Western Illinois University, Macomb, IL 61455, U.S.A. Price is $29.00 (single issues $4.00).

Articles and materials for consideration should be sent to the editor.